

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: August 23, 2002, 14:37:43 ; Search time 13.08 Seconds  
(without alignments)  
349.204 Million cell updates/sec

Title: US-09-811-118-1

Perfect score: 983  
Sequence: 1 MVAATVAAAMLLMAACAQ.....VRLQITLVKRLILKREDL 187

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA\*  
1: /cgn2-6/ptodata/2/1aa/5A.COMB.pep:\*  
2: /cgn2-6/ptodata/2/1aa/5B.COMB.pep:\*  
3: /cgn2-6/ptodata/2/1aa/6A.COMB.pep:\*  
4: /cgn2-6/ptodata/2/1aa/6B.COMB.pep:\*  
5: /cgn2-6/ptodata/2/1aa/PCTUS.COMB.pep:\*  
6: /cgn2-6/ptodata/2/1aa/Dackflles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	983	100.0	187	4	US-09-088-549-1
2	311	31.6	170	4	US-09-088-549-3
3	214	21.8	226	1	US-08-428-188-1
4	193.5	19.7	219	1	US-08-208-885-2
5	193.5	19.7	219	1	US-08-462-177-2
6	193.5	19.7	219	2	US-08-833-622-2
7	124.5	12.7	46	4	US-08-679-493A-174
8	122.5	12.5	90	4	US-08-936-165A-407
9	117.5	12.0	46	4	US-08-679-493A-170
10	114.5	11.6	46	4	US-08-679-493A-173
11	114	11.4	47	4	US-08-679-493A-180
12	112	11.4	47	4	US-08-679-493A-177
13	112	11.4	47	4	US-08-679-493A-178
14	110.5	11.2	46	4	US-08-679-493A-172
15	110	11.2	47	4	US-08-679-493A-179
16	109	11.1	47	4	US-08-679-493A-181
17	108.5	11.0	46	4	US-08-679-493A-175
18	102	10.4	47	4	US-08-679-493A-168
19	100.5	10.2	46	4	US-08-679-493A-171
20	97	9.9	47	4	US-08-679-493A-166
21	88.5	9.0	46	4	US-08-679-493A-167
22	86.5	8.8	46	4	US-08-679-493A-167
23	79.5	8.1	24	6	US-08-679-493A-176
24	79.5	8.1	46	4	US-08-679-493A-169
25	75.5	7.7	44	4	US-08-679-493A-183
26	73	7.4	1135	2	US-08-574-959A-7
27	73	7.4	1135	4	US-09-357-014-7

28	72.5	7.4	241	1	US-08-188-228-56	Sequence 56, Appl
29	72.5	7.4	241	1	US-08-332-643-50	Sequence 50, Appl
30	72.5	7.4	241	1	US-08-332-638-56	Sequence 56, Appl
31	72.5	7.4	1289	2	US-08-542-003-2	Sequence 2, Appl
32	72.5	7.4	1289	2	US-08-322-760A-2	Sequence 2, Appl
33	72	7.3	908	3	US-08-699-103B-12	Sequence 12, Appl
34	72	7.3	564	4	US-09-229-055-12	Sequence 12, Appl
35	71	7.2	564	4	US-09-442-100-15	Sequence 15, Appl
36	71	7.2	706	1	US-08-074-967-2	Sequence 2, Appl
37	71	7.2	706	2	US-08-553-541B-2	Sequence 2, Appl
38	71	7.2	706	4	US-09-268-202-2	Sequence 2, Appl
39	71	7.2	706	5	PCT-US94-06669-2	Sequence 2, Appl
40	70.5	7.2	389	1	US-08-650-275-3	Sequence 3, Appl
41	70.5	7.2	389	1	US-09-181-318-3	Sequence 3, Appl
42	69	7.0	396	2	US-08-926-253-2	Sequence 2, Appl
43	69	7.0	396	3	US-09-120-074-2	Sequence 2, Appl
44	68	6.9	561	4	US-09-442-100-16	Sequence 16, Appl
45	67.5	6.9	853	3	US-08-699-103B-10	Sequence 10, Appl

#### ALIGNMENTS

RESULT 1  
US-09-088-549-1  
; Sequence 1, Application US/09088549  
; Patent No. 6231853  
GENERAL INFORMATION:  
APPLICANT: HILLMAN, JENNIFER L.  
APPLICANT: CORLEY, NEIL C.  
APPLICANT: PATTERSON, CHANDRA  
TITLE OF INVENTION: HUMAN GLUTATHIONE PEROXIDASE-6  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows  
SOFTWARE: FASTSEQ for Windows Version 2.0b  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/088,549  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Cerrone, Michael C  
REGISTRATION NUMBER: 39,132  
REFERENCE/DOCKET NUMBER: PF-0530 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-855-0572  
TELEX:  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 187 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: PROSNOT20  
CLONE: 1817518  
US-09-088-549-1  
Query Match 100.0%; Score 983; DB 4; Length 187;

Best Local Similarity 100.0%; Pred. No. 4,6e-112;  
Matches 187; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVAATVAAALLLMAAACQAEQDFYDFKAVNIRGKLVSLYKRGVSILVNVASCEGFT 60  
Db 1 MVAATVAAALLLMAAACQAEQDFYDFKAVNIRGKLVSLYKRGVSILVNVASCEGFT 60  
QY 61 DOHYRALQQLQRLDGRPHFVNLAFPCNOFGQEPDSNKEIESFACRTYSVSPFMSKIAV 120  
Db 61 DOHYRALQQLQRLDGRPHFVNLAFPCNOFGQEPDSNKEIESFACRTYSVSPFMSKIAV 120  
QY 121 TGTGAHFAFYLLAQTSGKEPTWFWKYLVAADGKVGAMPDPTVSVEEVLQITALVYKLI 180  
Db 121 TGTGAHFAFYLLAQTSGKEPTWFWKYLVAADGKVGAMPDPTVSVEEVLQITALVYKLI 180  
QY 181 LTKREDL 187  
Db 181 LTKREDL 187

## RESULT 2

US-09-088-549-3  
; Sequence 3, Application US/09088549  
; Patent No. 6231853  
; GENERAL INFORMATION:  
; APPLICANT: HILLMAN, JENNIFER L.  
; APPLICANT: CORLEY, NEIL C.  
; APPLICANT: PATTERSON, CHANDRA  
; TITLE OF INVENTION: HUMAN GLUTATHIONE PEROXIDASE-6  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows  
; SOFTWARE: FastSeq for Windows Version 2.0b  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/088,549  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ceirone, Michael C.  
; REGISTRATION NUMBER: 39,132  
; REFERENCE/DOCKET NUMBER: PF-0530 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-855-0572  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 170 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GENBANK  
; CLONE: 544432  
; US-09-088-549-3

Query Match 31.6%; Score 311; DB 4; Length 170;  
Best Local Similarity 43.9%; Pred. No. 4.4e-30;  
Matches 68; Conservative 25; Mismatches 50; Indels 12; Gaps 4;

QY 18 CAQOE-----QDFYDFKAVNIRGKLVSLYKRGVSILVNVASCEGFTDOHYRALQQLOR 72  
Db 2 CASRDMWRCARSHHEFSKANDIDGHMVLDKYRGFVCLVTNVASQCGKTEVNTYQLVDLHA 61  
QY 73 DLGPHHFNVLAFPCNOFGQEPDSNKEIESFACRTYSVSPFMSKIAVGTGAHFAFKYL 132  
Db 62 RVAECGLRIALFPCNOFGQEPDSNKEIEFAA-GYNVKEFDMFSKICVNDGDADHPLMKWM 120  
QY 133 -AOTSG-----EPTWFWKYLVAADGKVGAMPD 161  
Db 121 KIOPKRGILGNMKNFTKFLIDKNGCVYKRIGP 155

## RESULT 3

US-08-428-188-1  
; Sequence 1, Application US/08428188  
; Patent No. 5861262  
; GENERAL INFORMATION:  
; APPLICANT: Chaudhieri, Jean  
; APPLICANT: Lemaigne, Arnaud  
; APPLICANT: Malette, Patricia  
; TITLE OF INVENTION: Method for the Specific Immunoassay of  
; TITLE OF INVENTION: Human Plasma Glutathione Peroxidase, Kit for its  
; TITLE OF INVENTION: Implementation, Oligopeptides and Antibodies Specific for  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Jacobson, Price, Holman & Stern  
; STREET: 400 Seventh St. N.W.  
; CITY: Washington D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20007  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/428,188  
; FILING DATE: 02-MAY-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: FR 93 10504  
; FILING DATE: 03-SEP-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Holman, John C.  
; REGISTRATION NUMBER: 22,769  
; REFERENCE/DOCKET NUMBER: 7696/P58648NA  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 638-6666  
; TELEFAX: (202) 393-5350  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 226 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHEICAL: NO  
; ANTI-SENSE: NO  
; FRAGMENT TYPE: N-terminal  
; FEATURE:  
; NAME/KEY: Modified-site  
; LOCATION: 73  
; OTHER INFORMATION: /note="Amino acid at position 73  
; OTHER INFORMATION: is selenocysteine"  
; US-08-428-188-1

Query Match 21.8%; Score 214; DB 2; Length 226;  
Best Local Similarity 33.1%; Pred. No. 4.7e-18;  
Matches 59; Conservative 23; Mismatches 70; Indels 26; Gaps 6;

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0y 26 YDFKAVNIRG-KIVSLSEYRGSVLWVNVASCGPTDQHYRALQDLRIGPHHNVLAF 84
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 41 YEYGALITIDGEREYIFFLQYACKYVLEFVNASTXGLTGC-YISNALQELAPFGYLIGE 99
                                     : : : : : : : : : : : : : : : :
0y 85 PCNGOGEPPDSNKKEIESFACT-----YSVSFPMSKIAYVTGAHPAKFYLAO----- 134
    |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 100 PCNGCKGKEPGENSIELPLTKLVPRGGGFVPNFOLFEGKDVNGEKQKFYFLTKMSCPT 159
                                     : : : : : : : : : : : : : : : :
0y 135 -----TSCK-----TWNEFKYLYVPDGKVYGAMDPIVSVEEVRLQTITALVRK 178
    | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 160 SELLSTSRLEFWEPKRVHDIRWNEKFLVGPDIIMRWHTRTVSNVKMDILSYMR 217
                                     : : | : | : | : | : | : | : | :

RESULT      4
US-08-208-885-2
Sequence 2, Application US/08208885
Patent No. 5569603
GENERAL INFORMATION:
APPLICANT: TRIPP, Cynthia A.
APPLICANT: Selkirk, Murray E.
APPLICANT: Grieve, Robert B.
TITLE OF INVENTION: DIROPLARIA IMMITIS GP29 PROTEINS,
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESS: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: U.S.A.
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/208, 885
FILING DATE: 08-MAR-1994
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: 2618-20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 219 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-208-885-2

Query Match          19.7%: Score 193.5; DB 1; Length 219;
Best Local Similarity 27.8%; Fred. No. 1.4e-15;
Matches 55; Conservative 23; Mismatches 81; Indels 39; Gaps 4.

0y 1 MYAAVVAAMLLMLMAAQAODEYDFKAVNIRKIVSLSEYRGSVSLWVNVASCGPT 60
   :|:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:|
Db 14 LIATGVADAKOLPNLKQCEPTQSOTIYDRHVPLLDSSSEKSLAIRGRKYLLINVAVATCAT 73
                                   :|:| |:| |:| |:| |:| |:| |:| |:|
0y 61 DOHAYTALOQLRDLCPRHHNVLPACPCNOFGGOEDPSNKKEI-----ESFACT 107
   :|:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:|
Db 74 FQ-VYDENPMLENNSNGTLKLIAFCNOFLLOEPAENHEHLGLKVVPRGNCMEPHG--- 129
                                   :|:| |:| |:| |:| |:| |:| |:| |:|
0y 108 YVSFPMFSKIYVTGTGAHPAKFYLAO-----TSCKEPTWNPKYL 148
   :|:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:| |:|
Db 130 ---NMHIIGKAYVNDDDHHPLKFLKENCPCQTVPIIGDRHQLMNPIGINDIIMNEFKL 186
                                   :|:| |:| |:| |:| |:| |:| |:| |:|
0y 149 VAPDGKVVGYAMPDTVSVE 166
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:      :      :      :
Db      187      IDKKGHPRYRFPNSAMVQ      204

RESULT      5
US-08-462-177-2
: Sequence 2, Application US/08462177
: Patent No. 5618532
: GENERAL INFORMATION:
: APPLICANT: TRIPP, Cynthia A.
: APPLICANT: Selkirk, Murray E.
: APPLICANT: Grieve, Robert B.
: TITLE OF INVENTION: DIROFILARIA IMMITIS GP29 PROTEINS,
: TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND USES THEREOF
: NUMBER OF SEQUENCES: 8
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Sheridan Ross & McIntosh
: STREET: 1700 Lincoln Street, Suite 3500
: CITY: Denver
: STATE: Colorado
: COUNTRY: U.S.A.
: ZIP: 80203
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/462,177
: FILING DATE: 08-MAR-1994
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Verser, Carol Talkington
: REGISTRATION NUMBER: 37,459
: REFERENCE/DOCKET NUMBER: 2618-20
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (303) 863-9700
: TELEFAX: (303) 863-0223
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 219 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
:
US-08-462-177-2

Query Match      19.7%; Score 193.5; DB 1; Length 219;
Best Local Similarity 27.8%; Pred. No. 1.4e-15;
Matches 55; Conservative 23; Mismatches 81; Indels 39; Gaps 4;

OY      1      MVAATVAAMLLMMAACAOEODFYDFKAVNIRKLVSLYKRGSVSLVNVVASECGFT      60
:      :      :      :      :      :      :      :      :      :      :
Db      14      LIATGVADKQKPNLTKQCEPTSGTLYDRHVPLDQSEKSLAEYRGKVLLLVNVAITYCAVT      73
:      :      :      :      :      :      :      :      :      :      :
OY      61      DQNYALDQLODRLDGRHFNFNVLAFGCGOFGOEPDSNKEI-----ESFACRT      107
:      :      :      :      :      :      :      :      :      :      :
Db      74      FQ-YVDENPMLENNSGTLKILAFPCNOFLQEPANHEHLLGLKYVRPGNGMEPHG-      129
:      :      :      :      :      :      :      :      :      :      :
OY      108      YVSFPMKSLIVNTSGANFAFKYLAQ-----TSKLEPTNMFVKYL      148
:      :      :      :      :      :      :      :      :      :      :
Db      130      ---NMHIGKVEVNGDDHNLPLKELKENCQPTVPLIGDRHQMLNMPIGTNDLIMFEKFL      186
:      :      :      :      :      :      :      :      :      :      :
OY      149      VARDGKVVVGAMDPTVSYE      166
:      :      :      :      :      :      :      :      :      :      :
Db      187      IDKKGHPRYRFPNSAMVQ      204

RESULT      6
US-08-833-622-2
: Sequence 2, Application US/08833622
: Patent No. 5866126
: GENERAL INFORMATION:

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; APPLICANT: Tripp, Cynthia A.
; APPLICANT: Selkirk, Murray E.
; APPLICANT: Grieve, Robert B.
; TITLE OF INVENTION: DIFOLIARIA IMMITIS GP29 PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND USES THEREOF
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheridan Ross & McIntosh
; STREET: 1700 Lincoln Street, Suite 3500
; CITY: Denver
; STATE: Colorado
; COUNTRY: U.S.A.
; ZIP: 80203
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/833,622
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/462,177
; FILING DATE: 08-MAR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Versey, Carol Talkington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: 2618-20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 863-9700
; TELEFAX: (303) 863-0223
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 219 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-833-622-2

Query Match      19.7%; Score 193.5; DB 2; Length 219;
Best Local Similarity 27.8%; Pred. No. 1.4e-15;
Matches 55; Conservative 23; Mismatches 81; Indels 39; Gaps 4;

QY 1 MYAATVAAAMLLMAAQAQDEPDYDKRAVIRKLVLSLEKRGVSLLVNVVASECGFT 60
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 14 LIATGVADKOLPMLTKQCEPTSTYDFHVPFLTDGSEKSLAEYRGKVLVAVATYCAVT 73
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
QY 61 DQHYRALQQLRDLPGRHFNVLAFPCNPGQOEPDSNKEI-----ESFACRT 107
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 74 FO-YNDFNPMLENNNSGTLKLAFPCNPFLOEPRAENHLLGLKYVRPGMGWEPHG--- 129
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
QY 108 YSVSPRMSKIAVVTGTAHAPKXYLAQ-----TSGKEPTWNVFWKYL 148
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 130 ---NMHIFGKVEVGGDDHPLKFLKEHCPTQVPIIGDRHQLMWPIGTNDIINNFEKFL 186
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
QY 149 VAPDGKVVGAMPPTYSYE 166
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 187 IDKKGHPRYRHPNSAWO 204
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

RESULT 7
; US-08-679-493A-174
; Sequence 174, Application US/08679493A
; Patent No. 6303295
; GENERAL INFORMATION:
; APPLICANT: Taylor, Ethan W.
; TITLE OF INVENTION: SELENOPROTEINS, CODING SEQUENCES AND METHODS
; FILE REFERENCE: 55-95
; CURRENT APPLICATION NUMBER: US/08/679,493A
; CURRENT FILING DATE: 1996-07-12
; PRIOR APPLICATION NUMBER: 60/001203
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; PRIOR FILING DATE: 1995-07-14
; PRIOR APPLICATION NUMBER: 60/003,112
; PRIOR FILING DATE: 1995-09-01
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 174
; LENGTH: 46
; TYPE: PRT
; ORGANISM: bovine
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)-(46)
; OTHER INFORMATION: X is selenocysteine.
; US-08-679-493A-174

Query Match      12.7%; Score 124.5; DB 4; Length 46;
Best Local Similarity 58.1%; Pred. No. 3.7e-08;
Matches 25; Conservative 3; Mismatches 14; Indels 1; Gaps 1;

QY 58 GTTDHYRALQQLRDLPGRHFNVLAFPCNPGQOEPDSNKEI 100
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 3 GLTDQ-YLELNLALQELTGFGLVILGFPCNPGKQEPGENSEI 44
   :|||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

RESULT 8
; US-08-936-165A-407
; Sequence 407, Application US/08936165A
; Patent No. 6348582
; GENERAL INFORMATION:
; APPLICANT: Black, Michael
; APPLICANT: Burnham, Martin
; APPLICANT: Hodgson, John
; APPLICANT: Knowles, David
; APPLICANT: Lonetlo, Michael
; APPLICANT: Nicholas, Richard
; APPLICANT: Pratt, Julie
; APPLICANT: Reichard, Richard
; APPLICANT: Rosenberg, Martin
; APPLICANT: Ward, Judith
; TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,
; TITLE OF INVENTION: Polypeptides and Their Uses
; NUMBER OF SEQUENCES: 534
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/936,165A
; FILING DATE: 24-SEP-1997
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/027,032
; FILING DATE: 24-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Glimm, Edward R.
; REGISTRATION NUMBER: 38,891
; REFERENCE/DOCKET NUMBER: P50549
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-4478
; TELEFAX: 610-270-5090
; TELEX:
; INFORMATION FOR SEQ ID NO: 407:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 90 amino acids
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Page 6

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? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: VARIANT
? LOCATION: (1)..(46)
? OTHER INFORMATION: x is selenocysteine
US-08-679-493A-172

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Query Match	11.2%;	Score 110.5;	DB 4;	Length 46;
Best Local Similarity	53.5%;	Pred. No. 1.9e-06;		
Matches 23;	Conservative 3;	Mismatches 16;	Indels 1;	Gaps 1

DQ 58 GFTDQHVRALQQLQRDLGRPHHNVNVAFPNQFGQQEPRNSKET 100  
| | | | | : | | | | | |  
Db 3 GLTGQ-YIELNALQEELAPFGLVITGFCPNQFGKQPENSEI 44

```

RESULT 15
US-08-679-493A-179
; Sequence 179, Application US/08679493A
; Patent No. 6303295
; GENERAL INFORMATION:
; APPLICANT: Taylor, Ethan W.
; TITLE OF INVENTION: SELENOPROTEINS, CODING SEQUENCES AND METHODS
; FILE REFERENCE: 55-95
; CURRENT APPLICATION NUMBER: US/08/679,493A
; CURRENT FILING DATE: 1996-07-12
; PRIOR APPLICATION NUMBER: 60/001203
; PRIOR FILING DATE: 1995-07-14
; PRIOR APPLICATION NUMBER: 60/003,112
; PRIOR FILING DATE: 1995-09-01
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 179
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Mus sp.
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)-(47)
; OTHER INFORMATION: x is selenocysteine.
US-08-679-493A-179

```

	Query Match	11.2%	Score 110:	DB 4:	Length 47:
	Best Local Similarity	1.2%	Pred. No.	2.3e-06:	
Ddb	Matches	22;	Conservative	4;	Mismatches 17; Indels 0; Gaps 0;
OY	58	GTTDDHYRATLOOLDLDPHHNFNYLAFPCNOGOEPPDSNKETI	100		
		: : : :   : :   :			
	3	GTTTRDYTEMNDLKRRLPRGLVYLGFPCNCPGHDENGKNEETI	45		

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Search completed: August 23, 2002, 14:38:28
Job time: 45 sec
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